

## AMENDED CLAIMS

[received by the International Bureau on 08 August 2005 (08.08.05);  
original claims 1-3 replaced by new claims 1-5 (2 pages)]

1. Compounds of structural formula I and formula II as modulators of histone acetyl transferase wherein:

R1 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH<sub>2</sub>-COOH, O-CO-CH<sub>2</sub>-C1, O-SO<sub>2</sub>-CH<sub>3</sub>, O-CH<sub>2</sub>-CHOH-CH<sub>3</sub>;

R2 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH<sub>2</sub>-COOH, O-CO-CH<sub>2</sub>-C1, O-SO<sub>2</sub>-CH<sub>3</sub>, O-CH<sub>2</sub>-CHOH-CH<sub>3</sub>;

R3 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH<sub>2</sub>-COOH, O-CO-CH<sub>2</sub>-C1, O-SO<sub>2</sub>-CH<sub>3</sub>, O-CH<sub>2</sub>-CHOH-CH<sub>3</sub>;

R4 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH<sub>2</sub>-COOH, O-CO-CH<sub>2</sub>-C1, O-SO<sub>2</sub>-CH<sub>3</sub>, O-CH<sub>2</sub>-CHOH-CH<sub>3</sub>; and

R5 is halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O-Butoxy, O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH<sub>2</sub>-COOH, O-CO-CH<sub>2</sub>-C1, O-SO<sub>2</sub>-CH<sub>3</sub>, O-CH<sub>2</sub>-CHOH-CH<sub>3</sub>.

2. A process for preparing compounds described in claim 1, comprising the step of reacting equimolar quantities of garcinol and isogarcinol with respective halo compounds at 30-60°C degree Centigrade in the presence of alkaline hydroxides or alkaline carbonates, in the presence of a solvent such as acetone, CHCl<sub>3</sub>, MDC, or EDC, purifying the compound so obtained by known methods.

3. Use of the compounds of formula I and II as modulators of Histone Acetyltransferase activity.

4. Use of the compounds of formula I and II in the manufacture of a medicament for the therapeutic and/or prophylactic treatment of diseases due to defects in gene regulation predominantly or at a risk of cancer.

5. A composition for use as an modulator of histone acetyltransferase activity comprising therapeutically effective amounts of a compound of formula I and II or a pharmaceutically acceptable salt or solvate of these compounds to modulate histone acetyltransferases.